

ABSTRACT

A surface discharge processing apparatus generates an electric discharge between an electrode and a workpiece (1) thereby forming a surface reforming layer on the surface of the workpiece. The apparatus comprises a wire electrode (2) for surface discharge processing used as the surface discharge processing electrode, and a wire electrode feeder composed of a feed reel (3) for feeding this wire electrode (2) for surface discharge processing to the workpiece (1), and a takeup reel (4) in addition to the conventional components. The wire electrode (2) is composed of a core wire (2a) made of ductile material, and a surface discharge processing material (2b) made of a surface reforming material adhered to this core wire or a raw material for the surface reforming material.